

## **Statistical Inventory Analysis**

For each underground tank that does not have continuous electronic monitoring of secondary containment for leak detection or does not use an Automatic Tank Gauge for leak detection in accordance with 38 M.R.S.A. § 564(2-A)(B), the required leak detection methods are monthly reconciliation of daily inventory and an annual Statistical Inventory Analysis (SIA). **A SIA must be submitted to the DEP by July 1 each year**, as required by 38 M.R.S.A. § 564(2-A)(B) and The Rules for Underground Oil Storage Facilities, Chapter 691 § 5(C)(2)(a) and 5(D)(2).

SIAs are used to check for leaks from underground oil storage tanks. An annual SIA is required for all underground tanks which are used: (1) to store motor fuel such as gasoline, diesel, or aviation fuel, or (2) to store any petroleum product for marketing and distribution. The following tanks are exempt: tanks supplying fuel to a generator; double-walled tanks with continuous interstitial space leak detection; and existing tanks constructed of fiberglass, cathodically protected steel or other commissioner approved noncorrosive material and which are monitored for leaks by a method able to detect a product loss or gain of 0.1 gallons or less per hour with a 95 percent level of confidence. These exemptions apply only if the following conditions are met.

- (a) Product piping associated with the tank has secondary containment, a self-monitoring suction product delivery system or another form of commissioner approved leak detection able to reliably detect leaks of 0.1 gallons or more per hour; and
- (b) The tank and piping are installed and operated in accordance with the other requirements of this rule.

For a SIA you must submit 30 days or more of complete, reconciled daily inventory measurements to a company with the proper statistical analysis capabilities. Cost will depend on the number of tanks for which data is submitted for analysis. Be sure to tell the vendor you select that the SIA must meet Maine (0.1 gph) standards.

The following four companies are available to provide this service to Maine underground petroleum tank owners:

Petroleum Inventory Management  
448 Maine Avenue  
Farmingdale, ME 04344  
(207) 582-1373, (800) 281-1109

Gilbarco VeederRoot  
12265 West Bayaud Ave., Suite 300  
Lakewood, CO 80228  
(303) 986-8011; (800) 253-8054

Simmons Sirvey Corp.  
9550 Forest Lane, Suite 720  
Dallas, TX 75243-5934  
1-800-848-8378

SIR International Inc.  
P O Box 700  
Locust Grove, OK 74352  
(800) 793-1919

Copies of the results of the SIA should be mailed to:

Annual Statistical Inventory Analysis  
Bureau of Remediation and Waste Management  
Department of Environmental Protection  
17 State House Station  
Augusta, Maine 04333-0017

Please include the name, location and registration number of the facility when submitting the results of each SIA.